

Appendix A: EPA Methods of Environmental Water Analysis

Table A-1. Inorganic constituents of concern in water samples, the analytical methods used to determine their concentrations, and their contractual reporting limits

Constituents of concern	Analytical method	Reporting limit ^(a,b)
Metals and minerals (mg/L)		
All alkalinites	EPA 310.1	1
Aluminum	EPA 200.7 or 200.8	0.05 or 0.2
Ammonia nitrogen (as N)	EPA 350.3, 350.2, or 350.1	0.03 or 0.1
Antimony	EPA 204.2 or 200.8	0.005
Arsenic	EPA 206.2 or 200.8	0.002
Barium	EPA 200.7 or 200.8	0.025 or 0.01
Beryllium	EPA 210.2 or 200.8	0.0005 or 0.0002
Boron	EPA 200.7	0.05
Bromide	EPA 300.0	0.5
Cadmium	EPA 213.2 or 200.8	0.0005
Calcium	EPA 200.7	0.5
Chloride	EPA 300.0	1 or 0.5
Chlorine (residual)	EPA 330.1 or 330.4	0.1
Chromium	EPA 218.2 or 200.8	0.01 or 0.001
Chromium(VI)	EPA 218.4 or 7196	0.002
Cobalt	EPA 200.7 or 200.8	0.025 or 0.05
Copper	EPA 220.2, 200.7 or 200.8	0.001, 0.01 or 0.05
Cyanide	EPA 335.2	0.02
Fluoride	EPA 340.2 or 340.1	0.05
Hardness, total (as CaCO ₃)	SM 2320B	1
Iron	EPA 200.7 or 200.8	0.1
Lead	EPA 239.2 or 200.8	0.002 or 0.005
Magnesium	EPA 200.7 or 200.8	0.5
Manganese	EPA 200.7 or 200.8	0.03
Mercury	EPA 245.2 or 245.1	0.0002
Molybdenum	EPA 200.7 or 200.8	0.025
Nickel	EPA 249.2, 200.7 or 200.8	0.002, 0.005 or 0.1
Nitrate (as NO ₃)	EPA 353.2, 354.1 or 300.0	0.5
Nitrite (as NO ₂)	EPA 353.2, 354.1 or 300.0	0.5
Ortho-phosphate	EPA 300.0, 365.1 or 365.2	0.05
Perchlorate	EPA 314.0	0.004
Potassium	EPA 200.7	1
Selenium	EPA 270.2 or 200.8	0.002

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Table A-1. Inorganic constituents of concern in water samples, the analytical methods used to determine their concentrations, and their contractual reporting limits (continued)

Constituents of concern	Analytical method	Reporting limit ^(a,b)
Silver	EPA 272.2 or 200.8	0.001 or 0.0005
Sodium	EPA 200.7	1 or 0.1
Sulfate	EPA 300.0	1
Surfactants	EPA 425.1	0.5
Thallium	EPA 279.2 or 200.8	0.001
Total dissolved solids	EPA 160.1	1
Total suspended solids	EPA 160.2	1
Total Kjeldahl nitrogen	EPA 351.2 or 351.3	0.2
Total phosphorus (as P)	EPA 365.4 or SM 4500-P	0.05
Vanadium	EPA 200.7 or 200.8	0.02 or 0.025
Zinc	EPA 200.7 or 200.8	0.02 or 0.05
General indicator parameters		
pH (pH units)	EPA 150.1	none
Biochemical oxygen demand (mg/L)	SM 5210B	2
Conductivity ($\mu\text{S}/\text{cm}$)	EPA 120.1	none
Chemical oxygen demand (mg/L)	EPA 410.4	5
Dissolved oxygen (mg/L)	EPA 360.1	0.05
Total organic carbon (mg/L)	EPA 9060 or 415.1	1
Total organic halides (mg/L)	EPA 9020	0.02
Toxicity, acute (fathead minnow)	EPA 600/4-AB5-013	NA
Toxicity, chronic (fathead minnow)	EPA 1000	NA
Toxicity, chronic (daphnid)	EPA 1002	NA
Toxicity, chronic (green algae)	EPA 1003	NA
Radioactivity (Bq/L)		
Gross alpha	EPA 900	0.074
Gross beta	EPA 900	0.11
Radioisotopes (Bq/L)		
Americium-241	U-NAS-NS-3050	0.0037
Plutonium-238	U-NAS-NS-3050	0.0037
Plutonium-239+240	U-NAS-NS-3050	0.0037
Radon-222	EPA 913	3.7
Radium-226	EPA 903	0.0093
Radium-228	EPA 904	0.037
Thorium-228	U-NAS-NS-3050	0.009
Thorium-230	U-NAS-NS-3050	0.006
Thorium-232	U-NAS-NS-3050	0.006
Tritium	EPA 906	3.7
Uranium-234	EPA 908	0.0037

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Constituents of concern	Analytical method	Reporting limit ^(a,b)
Uranium-235	EPA 908	0.0037
Uranium-238	EPA 908	0.0037

- a The significant figures displayed in this table vary by constituent. These variations reflect regulatory agency permit stipulations, or the applicable analytical laboratory contract under which the work was performed, or both.
- b These reporting limits are for water samples with low concentrations of dissolved solids. If higher concentrations are present, limits are likely to be higher.

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Table A-2. Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method

Constituents of concern	Reporting limit (µg/L) ^(a,b)	Constituents of concern	Reporting limit (µg/L) ^(a,b)
EPA Method 1664		cis-1,3-Dichloropropene	0.5
Oil & Grease	1000	Dibromochloromethane	0.2
EPA Method 420.1		Dibromomethane	0.2
Phenolics	5	Dichlorodifluoromethane	0.2
EPA Method 502.2 (or 524.2)		Ethylbenzene	0.2
1,1,1,2-Tetrachloroethane	0.2	Freon 113	0.2
1,1,1-Trichloroethane	0.2	Hexachlorobutadiene	0.2
1,1,2,2-Tetrachloroethane	0.2	Isopropylbenzene	0.2
1,1,2-Trichloroethane	0.2	m- and p-Xylene isomers	0.2
1,1-Dichloroethane	0.2	Methylene chloride	0.2
1,1-Dichloroethene	0.2	n-Butylbenzene	0.2
1,1-Dichloropropene	0.2	n-Propylbenzene	0.2
1,2,3-Trichlorobenzene	0.2	Naphthalene	0.2
1,2,3-Trichloropropane	0.2	o-Xylene	0.2
1,2,4-Trichlorobenzene	0.2	Isopropyl toluene	0.2
1,2,4-Trimethylbenzene	0.2	sec-Butylbenzene	0.2
1,2-Dichlorobenzene	0.2	Styrene	0.2
1,2-Dichloroethane	0.2	tert-Butylbenzene	0.2
1,2-Dichloropropane	0.2	Tetrachloroethene	0.2
1,3,5-Trimethylbenzene	0.2	Toluene	0.2
1,3-Dichlorobenzene	0.2	trans-1,2-Dichloroethene	0.2
1,3-Dichloropropane	0.2	trans-1,3-Dichloropropene	0.2
1,4-Dichlorobenzene	0.2	Trichloroethene	0.2
2,2-Dichloropropane	0.2	Trichlorofluoromethane	0.2
2-Chlorotoluene	0.2	Vinyl chloride	0.2
4-Chlorotoluene	0.2	EPA Method 507	
Benzene	0.2	Alachlor	0.5
Bromobenzene	0.2	Atraton	0.5
Bromochloromethane	0.2	Atrazine	0.5
Bromodichloromethane	0.2	Bromacil	0.5
Bromoform	0.2	Butachlor	0.5
Bromomethane	0.2	Diazinon	0.5
Carbon tetrachloride	0.2	Dichlorvos	0.5
Chlorobenzene	0.2	Ethoprop	0.5
Chloroethane	0.2	Merphos	0.5
Chloroform	0.2	Metolachlor	0.5
Chloromethane	0.2	Metribuzin	0.5
cis-1,2-Dichloroethene	0.2	Mevinphos	0.5

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Table A-2. Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method (continued)

Constituents of concern	Reporting limit (µg/L) ^(a,b)	Constituents of concern	Reporting limit (µg/L) ^(a,b)
Molinate	0.5	cis-1,3-Dichloropropene	1
Prometon	0.5	Dibromochloromethane	1
Prometryn	0.5	Dibromomethane	1
Simazine	0.5	Dichlorodifluoromethane	2
Terbutryn	0.5	Ethylbenzene	1
EPA Method 524.2		Ethylene dibromide	1
1,1,1,2-Tetrachloroethane	1	Freon 113	1
1,1,1-Trichloroethane	1	Hexachlorobutadiene	1
1,1,2,2-Tetrachloroethane	1	Isopropylbenzene	1
1,1,2-Trichloroethane	1	m- and p-Xylene isomers	1
1,1-Dichloroethane	1	Methylene chloride	1
1,1-Dichloroethene	1	n-Butylbenzene	1
1,1-Dichloropropene	1	n-Propylbenzene	1
1,2,3-Trichlorobenzene	1	Naphthalene	1
1,2,3-Trichloropropane	1	o-Xylene	1
1,2,4-Trichlorobenzene	1	Isopropyl toluene	1
1,2,4-Trimethylbenzene	1	sec-Butylbenzene	1
1,2-Dibromo-3-chloropropane	2	Styrene	1
1,2-Dichlorobenzene	1	tert-Butylbenzene	1
1,2-Dichloroethane	1	Tetrachloroethene	1
1,2-Dichloropropane	1	Toluene	1
1,3,5-Trimethylbenzene	1	trans-1,2-Dichloroethene	1
1,3-Dichlorobenzene	1	trans-1,3-Dichloropropene	1
1,3-Dichloropropane	1	Trichloroethene	0.5
1,4-Dichlorobenzene	1	Trichlorofluoromethane	1
2-Chlorotoluene	1	Vinyl chloride	2
4-Chlorotoluene	1	EPA Method 525	
Benzene	1	2,4-Dinitrotoluene	0.5
Bromobenzene	1	2,6-Dinitrotoluene	0.5
Bromodichloromethane	1	4,4'-DDD	0.5
Bromoform	1	4,4'-DDE	0.5
Bromomethane	2	4,4'-DDT	0.5
Carbon tetrachloride	1	Acenaphthylene	0.5
Chlorobenzene	1	Alachlor	0.5
Chloroethane	2	Aldrin	0.5
Chloroform	1	Anthracene	0.5
Chloromethane	2	Aroclor 1016 (PCB)	0.5
cis-1,2-Dichloroethene	1	Aroclor 1221 (PCB)	0.5

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Table A-2. Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method (continued)

Constituents of concern	Reporting limit (µg/L) ^(a,b)	Constituents of concern	Reporting limit (µg/L) ^(a,b)
Aroclor 1232 (PCB)	0.5	Hexachlorobenzene	0.5
Aroclor 1242 (PCB)	0.5	Hexachlorocyclopentadiene	0.5
Aroclor 1248 (PCB)	0.5	Indeno(1,2,3-c,d)pyrene	0.5
Aroclor 1254 (PCB)	0.5	Isophorone	0.5
Aroclor 1260 (PCB)	0.5	Lindane	0.5
Atraton	0.5	Merphos	0.5
Atrazine	0.5	Methoxychlor	0.5
Benzo(a)anthracene	0.5	Metolachlor	0.5
Benzo(a)pyrene	0.5	Metribuzin	0.5
Benzo(b)fluoranthene	0.5	Mevinphos	0.5
Benzo(g,h,i)perylene	0.5	Pentachlorobenzene	0.5
Benzo(k)fluoranthene	0.5	Pentachlorophenol	0.5
Bis(2-ethylhexyl)phthalate	0.5	Phenanthrene	0.5
Bromacil	0.5	Prometon	0.5
Butachlor	0.5	Prometryne	0.5
Butylbenzylphthalate	0.5	Propachlor	0.5
Chlordane	0.5	Pyrene	0.5
Chloropropham	0.5	Simazine	0.5
Chlorpyrifos	0.5	Stirophos	0.5
Chrysene	0.5	Terbutryn	0.5
Di (2-ethylhexyl) adipate	0.5	Toxaphene	0.5
Di-n-butylphthalate	0.5	EPA Method 547	
Diazinon	0.5	Glyphosate 20	20
Dibenzo(a,h)anthracene	0.5	EPA Method 601	
Dichlorvos	0.5	1,1,1-Trichloroethane	0.5
Dieldrin	0.5	1,1,2,2-Tetrachloroethane	0.5
Diethylphthalate	0.5	1,1,2-Trichloroethane	0.5
Dimethylphthalate	0.5	1,1-Dichloroethane	0.5
Disulfoton	0.5	1,1-Dichloroethene	0.5
Endosulfan I	0.5	1,2-Dichlorobenzene	0.5
Endosulfan II	0.5	1,2-Dichloroethane	0.5
Endosulfan sulfate	0.5	1,2-Dichloroethene (total)	0.5
Endrin	0.5	1,2-Dichloropropane	0.5
Endrin aldehyde	0.5	1,3-Dichlorobenzene	0.5
Ethoprop	0.5	1,4-Dichlorobenzene	0.5
Fluorene	0.5	2-Chloroethylvinylether	0.5
Heptachlor	0.5	Bromodichloromethane	0.5
Heptachlor epoxide	0.5	Bromoform	0.5

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Table A-2. Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method (continued)

Constituents of concern	Reporting limit (µg/L) ^(a,b)	Constituents of concern	Reporting limit (µg/L) ^(a,b)
Bromomethane	0.5	Dieldrin	0.1
Carbon tetrachloride	0.5	Endosulfan I	0.05
Chlorobenzene	0.5	Endosulfan II	0.1
Chloroethane	0.5	Endosulfan sulfate	0.1
Chloroform	0.5	Endrin	0.1
Chloromethane	0.5	Endrin aldehyde	0.1
cis-1,2-Dichloroethene	0.5	Heptachlor	0.05
cis-1,3-Dichloropropene	0.5	Heptachlor epoxide	0.05
Dibromochloromethane	0.5	Methoxychlor	0.5
Dichlorodifluoromethane	0.5	4,4'-DDD	0.1
Freon 113	0.5	4,4'-DDE	0.1
Methylene chloride	0.5	4,4'-DDT	0.1
Tetrachloroethene <i>trans</i> -1,2-	0.5	Toxaphene	1
Dichloroethene <i>trans</i> -1,3-	0.5	EPA Method 615	
Dichloropropene	0.5	2,4,5-T	0.5
Trichloroethene	0.5	2,4,5-TP (Silvex)	0.2
Trichlorofluoromethane	0.5	2,4-D	1
Vinyl chloride	0.5	2,4-Dichlorophenoxy acetic acid	2
EPA Method 602		Dalapon	10
1,2-Dichlorobenzene	0.3	Dicamba	1
1,3-Dichlorobenzene	0.3	Dichloroprop	2
1,4-Dichlorobenzene	0.3	Dinoseb	1
Benzene	0.4	MCPA	250
Chlorobenzene	0.3	MCPP	250
Ethylbenzene	0.3	EPA Method 624	
<i>m</i> -Xylene isomers	0.4	1,1,1-Trichloroethane	1
<i>o</i> -Xylene	0.4	1,1,2,2-Tetrachloroethane	1
<i>p</i> -Xylene	0.4	1,1,2-Trichloroethane	1
Toluene	0.3	1,1-Dichloroethane	1
Total xylene isomers	0.4	1,1-Dichloroethene	1
EPA Method 608		1,2-Dichlorobenzene	1
Aldrin	0.05	1,2-Dichloroethane	1
BHC, alpha isomer	0.05	1,2-Dichloroethene (total)	1
BHC, beta isomer	0.05	1,2-Dichloropropane	1
BHC, delta isomer	0.05	1,3-Dichlorobenzene	1
BHC, gamma isomer (Lindane)	0.05	1,4-Dichlorobenzene	1
Chlordane	0.2	2-Butanone	20

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Constituents of concern	Reporting limit (µg/L) ^(a,b)	Constituents of concern	Reporting limit (µg/L) ^(a,b)
2-Chloroethylvinylether	20	2,4,6-Trichlorophenol	5
2-Hexanone	20	2,4-Dichlorophenol	5
4-Methyl-2-pentanone	20	2,4-Dimethylphenol	5
Acetone	10	2,4-Dinitrophenol	25
Benzene	1	2,4-Dinitrotoluene	5
Bromodichloromethane	1	2,6-Dinitrotoluene	5
Bromoform	1	2-Chloronaphthalene	5
Bromomethane	2	2-Chlorophenol	5
Carbon disulfide	1	2-Methylphenol	5
Carbon tetrachloride	1	2-Methyl-4,6-dinitrophenol	25
Chlorobenzene	1	2-Methylnaphthalene	5
Chloroethane	2	2-Nitroaniline	25
Chloroform	1	3,3'-Dichlorobenzidine	10
Chloromethane	2	3-Nitroaniline	25
cis-1,2-Dichloroethene	1	4-Bromophenylphenylether	5
cis-1,3-Dichloropropene	1	4-Chloro-3-methylphenol	10
Dibromochloromethane	1	4-Chloroaniline	10
Dibromomethane	1	4-Chlorophenylphenylether	5
Dichlorodifluoromethane	2	4-Nitroaniline	25
Ethylbenzene	1	4-Nitrophenol	25
Freon 113	1	Acenaphthene	25
Methylene chloride	1	Acenaphthylene	5
Styrene	1	Anthracene	5
Tetrachloroethene	1	Benzo[a]anthracene	5
Toluene	1	Benzo[a]pyrene	5
Total xylene isomers	2	Benzo[b]fluoranthene	5
trans-1,2-Dichloroethene	1	Benzo[g,h,i]perylene	5
trans-1,3-Dichloropropene	1	Benzo[k]fluoranthene	5
Trichloroethene	0.5	Benzoic acid	25
Trichlorofluoromethane	1	Benzyl alcohol	10
Vinyl acetate	1	Bis(2-chloroethoxy)methane	5
Vinyl chloride	1	Bis(2-chloroisopropyl)ether	5
EPA Method 625			
1,2,4-Trichlorobenzene	5	Bis(2-ethylhexyl)phthalate	5
1,2-Dichlorobenzene	5	Butylbenzylphthalate	5
1,3-Dichlorobenzene	5	Chrysene	5
1,4-Dichlorobenzene	5	Di-n-butylphthalate	5
2,4,5-Trichlorophenol	5	Di-n-octylphthalate	5
		Dibenzo[a,h]anthracene	5

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Table A-2. Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method (continued)

Constituents of concern	Reporting limit (µg/L) ^(a,b)	Constituents of concern	Reporting limit (µg/L) ^(a,b)
Dibenzofuran	5	Naled	1
Diethylphthalate	5	Phorate	1
Dimethylphthalate	5	Prothiophos	1
Fluoranthene	5	Ronnel	1
Fluorene	5	Stirophos	1
Hexachlorobenzene	5	Trichloronate	1
Hexachlorobutadiene	5	EPA Method 8260	
Hexachlorocyclopentadiene	5	1,1,1,2-Tetrachloroethane	0.5
Hexachloroethane	5	1,1,1-Trichloroethane	0.5
Indeno[1,2,3-c,d]pyrene	5	1,1,2,2-Tetrachloroethane	0.5
Isophorone	5	1,1,2-Trichloroethane	0.5
<i>m</i> - and <i>p</i> -Cresol	5	1,1-Dichloroethane	0.5
<i>N</i> -Nitroso-di- <i>n</i> -propylamine	5	1,1-Dichloroethene	0.5
Naphthalene	5	1,2,3-Trichloropropane	0.5
Nitrobenzene	5	1,2-Dibromo-3-chloropropane	0.5
Pentachlorophenol	5	1,2-Dichloroethane	0.5
Phenanthrene	5	1,2-Dichloroethene (total)	0.5
Phenol	5	1,2-Dichloropropane	0.5
Pyrene	5	2-Butanone	0.5
EPA Method 632		2-Chloroethylvinylether	0.5
Diuron	0.1	2-Hexanone	0.5
EPA Method 8082		4-Methyl-2-pentanone	0.5
Polychlorinated biphenyls (PCBs)	0.5	Acetone	10
EPA Method 8140		Acetonitrile	100
Bolstar	1	Acrolein	50
Chlorpyrifos	1	Acrylonitrile	50
Coumaphos	1	Benzene	0.5
Demeton	1	Bromodichloromethane	0.5
Diazinon	1	Bromoform	0.5
Dichlorvos	1	Bromomethane	0.5
Disulfoton	1	Carbon disulfide	5
Ethoprop	1	Carbon tetrachloride	0.5
Fensulfothion	1	Chlorobenzene	0.5
Fenthion	1	Chloroethane	0.5
Merphos	1	Chloroform	0.5
Methyl Parathion	1	Chloromethane	0.5
Mevinphos	1	Chloroprene	5
		Dibromochloromethane	0.5

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Table A-2. Organic constituents of concern in water samples and their contractual reporting limits of concentration, sorted by analytical method (continued)

Constituents of concern	Reporting limit (µg/L) ^(a,b)	Constituents of concern	Reporting limit (µg/L) ^(a,b)
Dichlorodifluoromethane	0.5	1,2,3,4,7,8-HxCDF	0.00025
Ethanol	1000	1,2,3,6,7,8-HxCDD	0.00025
Ethylbenzene	0.5	1,2,3,6,7,8-HxCDF	0.00025
Freon 113	0.5	1,2,3,7,8,9-HxCDD	0.00025
Methylene chloride	0.5	1,2,3,7,8,9-HxCDF	0.00025
Styrene	0.5	1,2,3,7,8-PeCDD	0.0001
Tetrachloroethene	0.5	1,2,3,7,8-PeCDF	0.0001
Toluene	0.5	2,3,4,6,7,8-HxCDF	0.00025
Total xylene isomers	0.5	2,3,4,7,8-PeCDF	0.0001
Trichloroethene	0.5	2,3,7,8-TCDD	0.0001
Trichlorofluoromethane	0.5	2,3,7,8-TCDF	0.0001
Vinyl acetate	20	OCDD	0.0005
Vinyl chloride	0.5	OCDF	0.0005
cis-1,2-Dichloroethene	0.5	EPA Method 8330	5 or 1
cis-1,3-Dichloropropene	0.5	HMX ^(c)	5 or 1
trans-1,2-Dichloroethene	0.5	RDX ^(d)	5
trans-1,3-Dichloropropene	0.5	TNT ^(e)	0.0001
EPA Method 8290		EPA Method 9131 or Standard Method 9221	
1,2,3,4,6,7,8-HpCDD	0.00025	Fecal coliform bacteria	1 to 2
1,2,3,4,6,7,8-HpCDF	0.00025	Total coliform bacteria	1 to 2
1,2,3,4,7,8,9-HpCDF	0.00025		MPN^(f)/100mL

- a The significant figures displayed in this table vary by constituent. These variations reflect regulatory agency permit stipulations, the applicable analytical laboratory contract under which the work was performed, or both.
- b These reporting limits are for water samples with low concentrations of dissolved solids. If higher concentrations are present, limits are likely to be higher.
- c HMX is octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine.
- d RDX is hexahydro-1,3,5-trinitro-1,3,5-triazine.
- e TNT is 2,4,6-trinitrotoluene.
- f MPN = most probable number (of organisms)

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Table A-3. Radioisotopes and reporting limits for gamma spectroscopic analysis of constituents of concern in groundwater^(a)

Constituents of concern ^(b)	Typical reporting limit (Bq/L)
Actinium-228	3.1
Americium-241	1.8
Beryllium-7	3.7
Cesium-134	0.4
Cesium-137	0.3
Cobalt-57	0.2
Cobalt-60	0.4
Europium-152	0.9
Europium-154	1.0
Europium-155	1.0
Potassium-40	7.2
Radium-226	0.8
Thorium-228	0.5
Thorium-234	1.4
Uranium-235	1.3

- a The significant figures displayed in this table vary by constituents of concern. These variations reflect the applicable analytical laboratory contract under which the work was performed.
- b Not included are promethium-147 and thallium-208, reported above 46,000 and 72 Bq/L, respectively.